

Product datasheet for **MG205647**

Ctns (NM_031251) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ctns (NM_031251) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ctns
Synonyms: A1195360; AW049661
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205647 representing NM_031251
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGAGGAATTGGCTGCTTATTTTGACCCTTTTCTCTTGATGTTTCATAGAGAAGTATGAGTCAACTG
 TCAGTCTCACTGCTCTCCACCGTGAAGCTGGAAAATGGCAGTTCACCAACGTCGACATCACCTTGG
 GCATCCACTAAATTCGACCTTGGTGATCACTTTGAAGTCACGTTTCGCTCAAAAATCTGACTATTGTG
 GAGCTTCCTGATGAAGTTATAGTGCCTCGCGGAGAGAAAAATGCCTCTTCCAAGTACTTCTCAAATA
 TTGGACAAGTACTGTTTTCTGCATGGAAATCATTCCAACCAGACCTGCCCCAGGATCCGGTCTTGGT
 GATACACAGCAGAATCGTTAGCATCATAAACCAGGTGATTGGCTGGATCTACTTCATGGCGTGGTCTGTC
 TCCTTTTACCCACAAGTATCCAGAAGTGGAGACGGAAAAGTGTCAATGGTCTCAGCTTTGATTTCTTGG
 CCCTGAACTTGACGGGCTTCGTGGCCTACAGTGTTCACATCGGTCTTTGTGGGTGCCCTATATCCA
 GGAGGAGTTTCTCCTCAAATACCCCAATGGTGTGAACCCCGTCGACAGTAATGATGCCTTCTCAGCTTG
 CATGCTGTCGCCCTCACCTGATTGTATCCTGCAGTGTGCCTGTATGAGCGAGGCAACCAGCGTGTGT
 CATGGCCCTCCATTGGCTTCCTGGTACTCGCATGGCTCTTTGTCTAGTACCATGATTGTGGCTGCAGT
 CGGTATCACCATGGCTCCAGTTCCTCTTCTGCTTCTCTACATCAAGCTCATCATCACACTGATCAAG
 TATTTCCACAGGCCTATATGAATCTACTACAAAAGCACAAGGGCTGGAGCATGGCGTGTGCTCC
 TCGATTTTACAGGGGCGAGCTTTAGCCTCCTCCAGATGTTCCCTCCAGTCTTACAATAATGACCAATGGAC
 ATTGATCTTCGGAGACCAACCAAGTTCGGACTTGGCGTCTTACCATCTTCTTTGATGTTGTCTTCTTC
 ATCCAGCACTTCTACTGTACAGAAAGAAACCAGGGTACGACCAGTTGAAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205647 representing NM_031251
 Red=Cloning site Green=Tags(s)

MRRNWLILTLFLLMFIEKYESTVSLTAPPTVKLENGSSTNVDITLGHPLNSTLVITFEVTFRSKNLTIV
 ELPDEVIIVPRGEKNASFQVTSQNIQGVTVFLHGNHSNQTCPRI RFLVIHSRIVSIINQVIGWIYFMAWSV
 SFYPQVIQNWRKRSVIGLSFDFLALNLTGFVAVSVFNIGLLWVPYIQEEFLLKYPNGVNPVDSNDAFFSL
 HAVALTLIVILQCCLYERGNQRVSWPSIGFLVLAWL FVLVTMIVA AVGITTWLQFLFCFSYIKLIITLIK
 YFPQAYMNFYKSTKGWSIGGVLLDFTGGSF SLLQMFLQSYNNDQWTLIFGDPTKFGLGVFTIFFDVFVF
 IQHFYLYRKKPGYDQLN

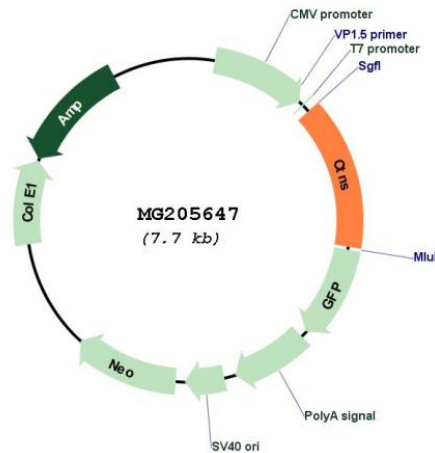
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031251

ORF Size:	3007 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_031251.4 , NP_112541.1
RefSeq Size:	3012 bp
RefSeq ORF:	1104 bp
Locus ID:	83429
UniProt ID:	P57757
Cytogenetics:	11 B4
Gene Summary:	Cystine/H(+) symporter thought to transport cystine out of lysosomes. Plays an important role in melanin synthesis, possibly by preventing melanosome acidification and subsequent degradation of tyrosinase TYR.[UniProtKB/Swiss-Prot Function]